

Title (en)
Outdoor unit and air-conditioning apparatus

Title (de)
Außeneinheit und Klimaanlage

Title (fr)
Unité d'extérieur et appareil de climatisation

Publication
EP 2853826 A2 20150401 (EN)

Application
EP 14182555 A 20140827

Priority
JP 2013190653 A 20130913

Abstract (en)
[Object] To obtain an outdoor unit and an air-conditioning apparatus that offer high safety, high reliability, and much comfort, while taking an environmental aspect into consideration. [Solution] An outdoor unit 50 includes a casing 50A having a bottom plate 16 and is configured such that at least a part thereof is made of metal, a compressor 1 provided within the casing 50A to compress a flammable refrigerant, an outdoor heat exchanger 3 provided within the casing 50A to exchange heat between the refrigerant and outside air, and an electric heater 32 provided on an upper surface of the bottom plate 16. The power consumption of the electric heater 32 is 250 W or less.

IPC 8 full level
F24F 1/06 (2011.01); **F24F 1/46** (2011.01); **F24F 11/00** (2006.01)

CPC (source: CN EP US)
F24F 1/06 (2013.01 - CN EP US); **F24F 1/20** (2013.01 - US); **F24F 1/46** (2013.01 - CN EP US); **F24F 11/30** (2017.12 - CN EP US); **F24F 11/46** (2017.12 - CN EP US); **F24F 11/56** (2017.12 - CN EP US); **F24F 13/22** (2013.01 - US); **F24F 11/41** (2017.12 - CN EP US); **F24F 2013/221** (2013.01 - US); **F24F 2140/30** (2017.12 - EP US); **F24F 2221/34** (2013.01 - CN EP US); **F25B 2313/008** (2013.01 - US); **F25B 2313/029** (2013.01 - US)

Citation (applicant)
JP 2011052941 A 20110317 - MITSUBISHI HEAVY IND LTD

Cited by
CN112696729A; US11506425B2; US11549041B2; US11441802B2; US11549695B2; US11492527B2; US11493244B2; US11365335B2; US11820933B2; US11435118B2; US11906207B2; US11441819B2; US11535781B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2853826 A2 20150401; **EP 2853826 A3 20151125**; **EP 2853826 B1 20190313**; CN 104456760 A 20150325; CN 204100424 U 20150114; JP 2015055455 A 20150323; US 2015075203 A1 20150319; US 9816712 B2 20171114

DOCDB simple family (application)
EP 14182555 A 20140827; CN 201410464925 A 20140912; CN 201420526588 U 20140912; JP 2013190653 A 20130913; US 201414458836 A 20140813